

Message Text

UNCLASSIFIED

PAGE 01 TOKYO 13824 010759Z
ACTION HEW-06

INFO OCT-01 EA-12 ISO-00 OES-09 EB-08 COME-00 MED-05
/041 W

-----030109 011241Z /50

R 010750Z AUG 78
FM AMEMBASSY TOKYO
TO SECSTATE WASHDC 0043

UNCLAS TOKYO 13824

DEPT PASS TO HEW/RSA

E.O. 11652: N/A
TAGS: TBIO, TECH, JA
SUBJECT: ARTIFICIAL ELECTRONIC ARM-HAND

1. THE SCIENCE AND TECHNOLOGY AGENCY HAS UNVEILED, AND IS DISPLAYING, AN ELECTRONIC ARTIFICIAL ARM-HAND NEWLY DEVELOPED BY IMASEN ELECTRIC COMPANY AT THE REQUEST OF THE RESEARCH DEVELOPMENT CORP. OF JAPAN. THE ARTIFICIAL ARM AND HAND, DESIGNED FOR THOSE WHO HAVE LOST THEIR FOREARMS, IS POWERED BY NICKEL-CADMIUM BATTERIES CARRIED IN THE USER'S POCKET. IT USES ELECTRODES TO CATCH WEAK ELECTRICAL SIGNALS EMITTED BY THE USER'S REMAINING UPPER ARM AND TRANSFERS THESE SIGNALS TO A MOTOR WHICH MOVES THE WRIST AND FINGERS IN PICKING, GRASPING, AND ROTATING MOTIONS. GRASPING FORCE OF THE HAND, WHICH CONSISTS OF A METAL SKELETON WRAPPED IN A VINYL SKIN AND LOOKS LIKE A REAL HAND, IS ADJUSTABLE BETWEEN ZERO AND FOUR KILOGRAMS. ALL FIVE FINGERS HAVE ARTICULATIONS LIKE REAL FINGERS AND CAN BE MOVED SEPARATELY. THE DEVICE HAS BEEN TESTED OVER A TWO YEAR PERIOD BY 25 PATIENTS AT 4 INSTITUTIONS. USERS WERE REPORTEDLY ABLE TO EAT, CHANGE CLOTHES, USE SCISSORS AND CARPENTER'S TOOLS, DRIVE MOTOR VEHICLES, AND PERFORM OTHER TASKS. DEVELOPMENT COST WAS YEN 76 MILLION. THE PRODUCT IS EXPECTED TO APPEAR ON THE MARKET THIS FALL

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WITH A PRICE TAG OF YEN 600,000 TO 700,000. STA OFFICIALS SAID THAT PERFORMANCE IS MUCH SUPERIOR TO THAT OF SIMILAR DEVICES PRODUCED ELSEWHERE. MANSFIELD

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NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 jan 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: ARMS
Control Number: n/a
Copy: SINGLE
Draft Date: 01 aug 1978
Decaption Date: 01 jan 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 jan 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1978TOKYO13824
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D780314-0693
Format: TEL
From: TOKYO
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1978/newtext/t197808110/aaaadomy.tel
Line Count: 58
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: a8b21759-c288-dd11-92da-001cc4696bcc
Office: ACTION HEW
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 29 mar 2005
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: N/A
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 1571714
Secure: OPEN
Status: NATIVE
Subject: ARTIFICIAL ELECTRONIC ARM-HAND
TAGS: TBIO, TECH, JA
To: STATE
Type: TE
vdkgvwkey: odbc://SAS/SAS.dbo.SAS_Docs/a8b21759-c288-dd11-92da-001cc4696bcc
Review Markings:
Sheryl P. Walter
Declassified/Released
US Department of State
EO Systematic Review
20 Mar 2014
Markings: Sheryl P. Walter Declassified/Released US Department of State EO Systematic Review 20 Mar 2014